

**Commonwealth of Kentucky
Natural Resources and Environmental Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382**

**Title V
AIR QUALITY PERMIT
Issued under 401 KAR 52:020**

Permittee Name: Custom Resins, Inc.
Mailing Address: P.O. Box 46, Henderson, KY 42420

Source Name: Custom Resins, Inc.
Mailing Address: Same as above

Source Location: Same as above

Permit Number: V-03-045
Log Number: 50668
Review Type: Operating, Title V
Source ID #: 21-101-00104
ORIS Code: None

Regional Office: Owensboro Regional Office
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County: Henderson

Application
Complete Date: January 20, 1999
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**John S. Lyons, Director
Division for Air Quality**

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SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and received a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

01 Monomer Storage Tank (North)

02 Monomer Storage Tank (South)

Description:

Storage tanks for Caprolactum

Maximum annual throughput: 1,508,394 gallons (North Tank)

1,783,245 gallons (South Tank)

Construction commenced: 1984

APPLICABLE REGULATIONS:

401 KAR 60:005, Section 3(zz), "Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry", as published in 40 CFR Part 60.

1. Operating Limitations:

A. Pursuant to Regulations 40 CFR 60.482-8(c), for equipment in a process unit that is subject to the Subpart VV control option, when a leak is detected:

- i. It shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9.
- ii. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

In accordance with 40 CFR 60.482-9:

- iii. Delay of repair of equipment for which leaks have been detected will be allowed if the repair is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown.
- iv. Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service.
- v. Delay of repair for valves will be allowed if:
 1. The owner or operator demonstrates that emissions of purged material resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and
 2. When repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with 40 CFR 60.482-10.
- vi. Delay of repair for pumps will be allowed if:
 1. Repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and
 2. Repair is completed as soon as practicable, but not later than 6 months after the leak was detected.
- vii. Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than

6 months after the first process unit shutdown.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations:

None

3. Testing Requirements:

The owner or operator shall demonstrate compliance using the test methods and procedures identified in 40 CFR 60.485.

4. Specific Monitoring Requirements:

A. Pursuant to Regulation 40 CFR 60.482-8(a), for equipment in a process unit that is subject to the Subpart VV control option, pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors shall be monitored within 5 days by the method specified in 40 CFR 60.485(b) if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method. In accordance with 40 CFR 60.482-8(b), if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

5. Specific Recordkeeping Requirements:

A. Pursuant to Regulation 40 CFR 60.486(b), when each leak is detected as specified in 40 CFR 60.482-8, the following requirements apply:

- i. A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.
- ii. The identification on a valve may be removed after it has been monitored for 2 successive months as specified in 40 CFR 60.482-7(c) and no leak has been detected during those 2 months.
- iii. The identification on equipment except on a valve, may be removed after it has been repaired.

B. Pursuant to Regulation 40 CFR 60.486(c), when each leak is detected, the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location:

- i. The instrument and operator identification numbers and the equipment identification number.
- ii. The date the leak was detected and the dates of each attempt to repair the leak.
- iii. Repair methods applied in each attempt to repair the leak.
- iv. "Above 10,000" if the maximum instrument reading measured by the methods specified in 40 CFR 60.485(a) after each repair attempt is equal to or greater than 10,000 ppm.
- v. "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
- vi. The signature of the person whose decision it was that repair could not be effected without a process shutdown.

- vii. The expected date of successful repair of the leak if a leak is not repaired within 15 days.
- viii. Dates of process unit shutdown that occur while the equipment is unrepaired.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- ix. The date of successful repair of the leak.

6. Specific Reporting Requirements:

- A. Pursuant to Regulation 40 CFR 60.487(c), for equipment in a process unit that is subject to the Subpart VV control option, all semiannual reports to the Administrator shall include the following information:
 - i. Process unit identification.
 - ii. For each month during the semiannual reporting period:
 - 1. Number of valves for which leaks were detected,
 - 2. Number of valves for which leaks were not repaired within 15 calendar days after the leak was detected,
 - 3. Number of pumps for which leaks were detected,
 - 4. Number of pumps for which leaks were not repaired within 15 calendar days after the leak was detected,
 - 5. Number of compressors for which leaks were detected,
 - 6. Number of compressors for which leaks were not repaired within 15 calendar days after the leak was detected, and
 - 7. The facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible.
 - iii. Dates of process unit shutdowns, which occurred within the semiannual reporting period.
 - iv. Revisions to items reported according to the initial semiannual report if changes have occurred since the initial report or subsequent revisions to the initial report.
- B. Pursuant to Regulation 40 CFR 60.487(e) an owner or operator shall report the results of all performance tests in accordance with 40 CFR 60.8. The provisions of 40 CFR 60.8(d) do not apply to affected facilities subject to this condition except that an owner or operator must notify the Administrator of the schedule for the initial performance tests at least 30 days before the initial performance tests.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

03 Monomer Storage Tank

Description:

Storage tanks for Caprolactum

Maximum annual throughput: 400,000 gallons

Construction commenced: 1957

APPLICABLE REGULATIONS:

None

1. Operating Limitations:

None

2. Emission Limitations:

None

3. Testing Requirements:

None

4. Specific Monitoring Requirements:

None

5. Specific Recordkeeping Requirements:

None

6. Specific Reporting Requirements:

None

7. Specific Control Equipment Operating Conditions:

None

8. Alternate Operating Scenarios:

None

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

04	Measure Tank
05	Additives Mixing
06	Additives Mixing
09	Additives Mixing
10	Feed Tank
11	Feed Tank
12	Polymerization
13	Polymerization
16	Polymerization
17	Extraction
18	Extraction
23	Vacuum Dryer
24	Vacuum Dryer
29	Vacuum Dryer
40	Extrusion

Description:

The measure tank is used to measure a set volume of caprolactam (pumped from the storage tanks) to be added to the mix tanks. The additives mixing are mix tanks in which caprolactam is mixed with other additives and catalysts. The feed tanks receive the mixture from the mix tanks and allow the reactor feed to be continuous. Polymerization points are the reaction vessels. Extraction is the process by which unreacted monomer is removed from the product by circulating hot water through a bed of chips to dissolve the monomer. The vacuum dryers remove water from the polymer to make it fit for sale. The extruders produce nylon waste material.

Rated capacities: 913 lbs/hr (Measure Tank)

603 lbs/hr (EP 05, 10, 12)

623 lbs/hr (EP 06, 11, 13)

355 lbs/hr (EP 09, 16)

300 lbs/hr (EP 17, 18, 23, 24, 29)

600 lbs/hr (EP 40)

Construction commenced: 1957 (EP 04, 05, 06, 10, 11, 12, 13, 17, 18, 23, 24)

1964 (EP 09, 16, 29)

1974 (EP 40)

APPLICABLE REGULATIONS:

401 KAR 61:020, "Existing process operations"

1. Operating Limitations:

None

2. Emission Limitations:

Pursuant to Regulation 401 KAR 61:020:

- a) Visible emissions from each emission point listed in the above table shall not equal or exceed 40 percent opacity, as determined with Reference Method 9, Appendix A, 40

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

CFR 60.

- b) Hourly particulate emissions from each emission point listed in the above table as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed 2.58 lb/hr.

Compliance Demonstration: To provide assurance that the particulate matter emission limitations are being met, the permittee shall monitor the amount and type of process weight added to each particulate matter emissions unit. The process weight shall be determined as the average hourly tons added to the emission unit averaged over a one-month period. Average particulate emissions shall be calculated as follows:

$$PE = (PW \times PEF)$$

Where PE = Particulate emissions in lbs./hr, PW = process weight in tons/hr, gal/hr, or parts/hr; and PEF = particulate emission factor in lbs/ton, lbs/gal, or lbs/parts of process weight as found in the emissions inventory system.

3. Testing Requirements:

None

4. Specific Monitoring Requirements:

The owner or operator shall monitor the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

5. Specific Record Keeping Requirements:

The owner or operator shall keep records of the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

6. Specific Reporting Requirements:

The owner or operator shall report exceedances or deviations of all operating and emission limitations to the Division's Owensboro Regional Office in accordance with Section F of this permit.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**07 CMT-3: Additives Mixing****08 CMT-4: Additives Mixing****14 Polymerization****15 Polymerization****Description:**

EP 07 and 08 are mixing tanks for mixing additives and catalyst that will be added to the reactor. EP 14 and 15 are two of the reactors.

Rated Capacity: 2111 lbs/hr (EP 07, 08)

2100 lbs/hr (EP 14, 15)

Construction Commenced: 1977 (EP 07, 14)

1989 (EP 08, 15)

APPLICABLE REGULATIONS:

401 KAR 59:010, "New process operations"

1. Operating Limitations:

None

2. Emission Limitations:

Pursuant to Regulation 401 KAR 59:010:

- a) Visible emissions from each emission point listed in the above table shall not equal or exceed 20 percent opacity, as determined with Reference Method 9, Appendix A, 40 CFR 60.
- b) Hourly particulate emissions from EP 07 and 08 as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed 3.71 lb/hr.
- c) Hourly particulate emissions from EP 14 and 15 as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed 3.70 lb/hr.

Compliance Demonstration: To provide assurance that the particulate matter emission limitations are being met, the permittee shall monitor the amount and type of process weight added to each particulate matter emissions unit. The process weight shall be determined as the average hourly tons added to the emission unit averaged over a one-month period. Average particulate emissions shall be calculated as follows:

$$PE = (PW \times PEF)$$

Where PE = Particulate emissions in lbs./hr, PW = process weight in tons/hr, gal/hr, or parts/hr; and PEF = particulate emission factor in lbs/ton, lbs/gal, or lbs/parts of process weight as found in the emissions inventory system.

3. Testing Requirements:

None

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

4. Specific Monitoring Requirements:

The owner or operator shall monitor the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

5. Specific Record Keeping Requirements:

The owner or operator shall keep records of the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

6. Specific Reporting Requirements:

The owner or operator shall report exceedances or deviations of all operating and emission limitations to the Division's Owensboro Regional Office in accordance with Section F of this permit.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- 19 **Extraction**
- 22 **Extraction**
- 25 **Vacuum Drying**
- 28 **Vacuum Drying**

Description:

Extraction is the process by which unreacted monomer is removed from the product by circulating hot water through a bed of chips to dissolve the monomer. The vacuum dryers remove water from the polymer.

Rated Capacity: 1100 lbs/hr

Construction Commenced: 1985 (EP 19, 25)
1977 (EP 22, 28)

APPLICABLE REGULATIONS:

401 KAR 59:010, "New process operations"

1. Operating Limitations:

None

2. Emission Limitations:

Pursuant to Regulation 401 KAR 59:010:

- a) Visible emissions from each emission point listed in the above table shall not equal or exceed 20 percent opacity, as determined with Reference Method 9, Appendix A, 40 CFR 60.
- b) Hourly particulate emissions from each emission point listed in the above table as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed 2.48 lb/hr.

Compliance Demonstration: To provide assurance that the particulate matter emission limitations are being met, the permittee shall monitor the amount and type of process weight added to each particulate matter emissions unit. The process weight shall be determined as the average hourly tons added to the emission unit averaged over a one-month period. Average particulate emissions shall be calculated as follows:

$$PE = (PW \times PEF)$$

Where PE = Particulate emissions in lbs./hr, PW = process weight in tons/hr, gal/hr, or parts/hr; and PEF = particulate emission factor in lbs/ton, lbs/gal, or lbs/parts of process weight as found in the emissions inventory system.

3. Testing Requirements:

None

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

4. Specific Monitoring Requirements:

The owner or operator shall monitor the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

5. Specific Record Keeping Requirements:

The owner or operator shall keep records of the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

6. Specific Reporting Requirements:

The owner or operator shall report exceedances or deviations of all operating and emission limitations to the Division's Owensboro Regional Office in accordance with Section F of this permit.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**20 Extraction****26 Vacuum Dryer****Description:**

Extraction is the process by which unreacted monomer is removed from the product by circulating hot water through a bed of chips to dissolve the monomer. The vacuum dryers remove water from the polymer.

Rated capacities: 1100 lbs/hr

Construction commenced: 1957

APPLICABLE REGULATIONS:

401 KAR 61:020, "Existing process operations"

1. Operating Limitations:

None

2. Emission Limitations:

Pursuant to Regulation 401 KAR 61:020:

- a) Visible emissions from each emission point listed in the above table shall not equal or exceed 40 percent opacity, as determined with Reference Method 9, Appendix A, 40 CFR 60.
- b) Hourly particulate emissions from each emission point listed in the above table as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed 2.75 lb/hr.

Compliance Demonstration: To provide assurance that the particulate matter emission limitations are being met, the permittee shall monitor the amount and type of process weight added to each particulate matter emissions unit. The process weight shall be determined as the average hourly tons added to the emission unit averaged over a one-month period. Average particulate emissions shall be calculated as follows:

$$PE = (PW \times PEF)$$

Where PE = Particulate emissions in lbs./hr, PW = process weight in tons/hr, gal/hr, or parts/hr; and PEF = particulate emission factor in lbs/ton, lbs/gal, or lbs/parts of process weight as found in the emissions inventory system.

3. Testing Requirements:

None

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

4. Specific Monitoring Requirements:

The owner or operator shall monitor the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

5. Specific Record Keeping Requirements:

The owner or operator shall keep records of the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

6. Specific Reporting Requirements:

The owner or operator shall report exceedances or deviations of all operating and emission limitations to the Division's Owensboro Regional Office in accordance with Section F of this permit.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**21 Extraction****Description:**

Extraction is the process by which unreacted monomer is removed from the product by circulating hot water through a bed of chips to dissolve the monomer.

Rated capacities: 1700 lbs/hr

Construction commenced: 1989

APPLICABLE REGULATIONS:

401 KAR 59:010, "New process operations"

1. Operating Limitations:

None

2. Emission Limitations:

Pursuant to Regulation 401 KAR 59:010:

- a) Visible emissions from each emission point listed in the above table shall not equal or exceed 20 percent opacity, as determined with Reference Method 9, Appendix A, 40 CFR 60.
- b) Hourly particulate emissions from each emission point listed in the above table as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed 3.25 lb/hr.

Compliance Demonstration: To provide assurance that the particulate matter emission limitations are being met, the permittee shall monitor the amount and type of process weight added to each particulate matter emissions unit. The process weight shall be determined as the average hourly tons added to the emission unit averaged over a one-month period. Average particulate emissions shall be calculated as follows:

$$PE = (PW \times PEF)$$

Where PE = Particulate emissions in lbs./hr, PW = process weight in tons/hr, gal/hr, or parts/hr; and PEF = particulate emission factor in lbs/ton, lbs/gal, or lbs/parts of process weight as found in the emissions inventory system.

3. Testing Requirements:

None

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

4. Specific Monitoring Requirements:

The owner or operator shall monitor the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

5. Specific Record Keeping Requirements:

The owner or operator shall keep records of the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

6. Specific Reporting Requirements:

The owner or operator shall report exceedances or deviations of all operating and emission limitations to the Division's Owensboro Regional Office in accordance with Section F of this permit.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

38 **Extrusion**

39 **Extrusion**

Description:

Both extruders produce waste nylon at a rate of 500 pounds/year.

Rated Capacity: 600 lbs/hr (EP 38)

300 lbs/hr (EP 39)

Construction Commenced: 1987 (EP 38)

1984 (EP 39)

APPLICABLE REGULATIONS:

401 KAR 59:010, "New process operations"

1. Operating Limitations:

None

2. Emission Limitations:

Pursuant to Regulation 401 KAR 59:010:

- a) Visible emissions from each emission point listed in the above table shall not equal or exceed 20 percent opacity, as determined with Reference Method 9, Appendix A, 40 CFR 60.
- b) Hourly particulate emissions from each emission point listed in the above table as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed 2.34 lb/hr.

Compliance Demonstration: To provide assurance that the particulate matter emission limitations are being met, the permittee shall monitor the amount and type of process weight added to each particulate matter emissions unit. The process weight shall be determined as the average hourly tons added to the emission unit averaged over a one-month period. Average particulate emissions shall be calculated as follows:

$$PE = (PW \times PEF)$$

Where PE = Particulate emissions in lbs./hr, PW = process weight in tons/hr, gal/hr, or parts/hr; and PEF = particulate emission factor in lbs/ton, lbs/gal, or lbs/parts of process weight as found in the emissions inventory system.

3. Testing Requirements:

None

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

4. Specific Monitoring Requirements:

The owner or operator shall monitor the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

5. Specific Record Keeping Requirements:

The owner or operator shall keep records of the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

6. Specific Reporting Requirements:

The owner or operator shall report exceedances or deviations of all operating and emission limitations to the Division's Owensboro Regional Office in accordance with Section F of this permit.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

27 Vacuum Drying

Description:

The vacuum dryers remove water from the polymer.

Rated capacities: 1800 lbs/hr

Construction commenced: 1989

APPLICABLE REGULATIONS:

401 KAR 59:010, "New process operations"

1. Operating Limitations:

None

2. Emission Limitations:

Pursuant to Regulation 401 KAR 59:010:

- a) Visible emissions from each emission point listed in the above table shall not equal or exceed 20 percent opacity, as determined with Reference Method 9, Appendix A, 40 CFR 60.
- b) Hourly particulate emissions from each emission point listed in the above table as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed 3.36 lb/hr.

Compliance Demonstration: To provide assurance that the particulate matter emission limitations are being met, the permittee shall monitor the amount and type of process weight added to each particulate matter emissions unit. The process weight shall be determined as the average hourly tons added to the emission unit averaged over a one-month period. Average particulate emissions shall be calculated as follows:

$$PE = (PW \times PEF)$$

Where PE = Particulate emissions in lbs./hr, PW = process weight in tons/hr, gal/hr, or parts/hr; and PEF = particulate emission factor in lbs/ton, lbs/gal, or lbs/parts of process weight as found in the emissions inventory system.

3. Testing Requirements:

None

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

4. Specific Monitoring Requirements:

The owner or operator shall monitor the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

5. Specific Record Keeping Requirements:

The owner or operator shall keep records of the following:

- a) Opacity on a quarterly basis using Reference Method 9.
- b) Process weight rate in tons/hr.

6. Specific Reporting Requirements:

The owner or operator shall report exceedances or deviations of all operating and emission limitations to the Division's Owensboro Regional Office in accordance with Section F of this permit.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)**33 Evaporator****34 Evaporator****Description:**

The evaporators produce small amounts of low molecular weight nylon polymer.

Rated Capacities: 1000 lbs/hr (EP 33)

1500 lbs/hr (EP 34)

Construction commenced: 1986 (EP 33)

1984 (EP 34)

APPLICABLE REGULATIONS:

401 KAR 60:005, Section 3(zz), "Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry", as published in 40 CFR Part 60.

1. Operating Limitations:

None

2. Emission Limitations:

None

3. Testing Requirements:

None

4. Specific Monitoring Requirements:

None

5. Specific Recordkeeping Requirements:

Pursuant to 40 CFR 60.486(i), the owner or operator shall keep a log in a readily accessible location for use in determining exemptions as provided in 40 CFR 60.480(d). This log shall contain a statement listing the feed or raw materials and products from the affected facilities and an analysis demonstrating that these chemicals are heavy liquids.

6. Specific Reporting Requirements:

- A. Pursuant to Regulation 40 CFR 60.487(c), for equipment in a process unit that is subject to the Subpart VV control option, all semiannual reports shall include the following information:
 - i. Process unit identification.
 - ii. For each month during the semiannual reporting period:
 - 1. Number of valves for which leaks were detected,
 - 2. Number of valves for which leaks were not repaired within 15 calendar days after the leak was detected,
 - 3. Number of pumps for which leaks were detected,

4. Number of pumps for which leaks were not repaired within 15 calendar

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

- days after the leak was detected,
 5. Number of compressors for which leaks were detected,
 6. Number of compressors for which leaks were not repaired within 15 calendar days after the leak was detected, and
 7. The facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible.
 - iii. Dates of process unit shutdowns, which occurred within the semiannual reporting period.
 - iv. Revisions to items reported according to the initial semiannual report if changes have occurred since the initial report or subsequent revisions to the initial report.
- B. Pursuant to Regulation 40 CFR 60.487(e) an owner or operator shall report the results of all performance tests in accordance with 40 CFR 60.8. The provisions of 40 CFR 60.8(d) do not apply to affected facilities subject to this condition except that an owner or operator must notify the Administrator of the schedule for the initial performance tests at least 30 days before the initial performance tests.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

35 Boiler #1

36 Boiler #2

Description:

These boilers use natural gas.

Rated Capacity: 27.5 mmBtu/hr for each boiler

Construction commenced: 1986

APPLICABLE REGULATIONS:

401 KAR 59:015, "New indirect heat exchangers"

1. Operating Limitations:

None

2. Emission Limitations:

Pursuant to 401 KAR 59:015:

- a) Particulate emissions shall not exceed 0.44 lbs/mmBtu.
- b) Visible emissions shall not exceed 20 percent opacity.
- c) Sulfur dioxide emissions shall not exceed 1.98 lbs/mmBtu.

Compliance Demonstration:

Compliance is assumed when burning natural gas.

3. Testing Requirements:

None

4. Specific Monitoring Requirements:

The owner or operator shall monitor the following (401 KAR 52:020, Section 10):

- a. The amount of natural gas burned on a monthly basis.
- b. Hours of operation of the boilers on a monthly basis.
- c. Opacity on a quarterly basis using Reference Method 9.

5. Specific Recordkeeping Requirements:

The owner or operator shall retain records of the amount of natural gas burned on a monthly basis (401 KAR 52:020, Section 10):

6. Specific Reporting Requirements:

The owner or operator shall report exceedances or deviations of all operating and emission limitations to the Division's Owensboro Regional Office in accordance with Section F of this permit.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

47 Cold Cleaning Degreaser

Description:

This degreaser is a batch cold cleaning degreaser equipped with a cover and an internal drainage facility.

The solvent used is Safety Kleen 105.

Maximum Throughput: 74 gallons/year

APPLICABLE REGULATIONS:

401 KAR 59:185, "New solvent metal cleaning equipment"

1. Operating Limitations:

Pursuant to 401 KAR 59:185, Section 4:

- a) Waste solvent shall not be disposed of or transferred to another party so that greater than twenty (20) percent by weight of the waste solvent can evaporate into the atmosphere.
Waste solvent shall be stored only in covered containers.
- b) The degreaser cover shall be closed if not handling parts in the cleaner.
- c) Cleaned parts shall be drained until dripping ceases.
- d) A permanent, conspicuous label, summarizing the operating requirements specified above, shall be installed on or near the cleaner.

2. Emission Limitations:

None

3. Testing Requirements:

None

4. Specific Monitoring Requirements:

None

5. Specific Recordkeeping Requirements:

The owner or operator shall keep a record of all times and circumstances during which any of the above listed operating limitations are exceeded.

6. Specific Reporting Requirements:

The owner or operator shall report any exceedances or deviations from the above listed operating limitations to the Owensboro Regional Office as specified in Section F of this permit.

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

<u>Description</u>	<u>Generally Applicable Regulation</u>
1. EP 30: Weak Wash Water Tank	None
2. EP 31: Weak Wash Water Tank	None
3. EP 32: Strong Wash Water Storage	None
4. EP 41: Reboiler	None
5. EP 42: Electric Fluid Heater	None
6. EP 43: Electric Fluid Heater	None
7. EP 44: Electric Fluid Heater	None
8. EP 45: Electric Fluid Heater	None
9. EP 46: Emergency Electric Generator	None
10. EP 48: Quality Control Laboratory	None
11. EP 49: R & D Laboratory	None

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. Particulate and sulfur dioxide emissions, as measured by methods referenced in 401 KAR 50:015, Section 1, shall not exceed the respective limitations specified herein.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

1. Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b (IV)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
 - a. Date, place as defined in this permit, and time of sampling or measurements;
 - b. Analyses performance dates;
 - c. Company or entity that performed analyses;
 - d. Analytical techniques or methods used;
 - e. Analyses results; and
 - f. Operating conditions during time of sampling or measurement.
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b(IV) 2 and 1a(8) of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
 - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
 - b. To access and copy any records required by the permit;
 - c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Section 1b (V)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. Data from the continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. All deviations from permit requirements shall be clearly identified in the reports.
7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
 - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall submit written notice upon request.
8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within *30 days*. Other deviations from permit requirements shall *be included in the semiannual report required by Section F.6* [Section 1b (V) 3, 4. of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
 - a. Identification of the term or condition;
 - b. Compliance status of each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent;
 - d. The method used for determining the compliance status for the source, currently and over the reporting period.
 - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

- f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality
Owensboro Regional Office
3032 Alvey Park Drive, W.Suite 700
Owensboro, KY 42303-2191

U.S. EPA Region IV
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St.
Atlanta, GA 30303-8960

Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.
11. Pursuant to Section VII (3) of the policy manual of the Division for Air Quality as referenced in 401 KAR 50:016, Section 1(1), results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days after the completion of the fieldwork.

SECTION G - GENERAL PROVISIONS**(a) General Compliance Requirements**

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a, 3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].
2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a, 6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
 - a. If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
 - b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
 - c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the conditions of this permit [Section 1a, 7,8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a, 14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a, 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Section 1a, 15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a, 10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3)(b)].
11. This permit does not convey property rights or exclusive privileges [Section 1a, 9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Natural Resources and Environmental Protection or any other federal, state, or local agency.
13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3)(d)].
14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3)(a)].
15. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.

SECTION G - GENERAL PROVISIONS (CONTINUED)

16. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of issuance. Compliance with the conditions of a permit shall be considered compliance with:
 - (a) Applicable requirements that are included and specifically identified in the permit and
 - (b) Non-applicable requirements expressly identified in this permit.
- (b) Permit Expiration and Reapplication Requirements
 1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].
 2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020 Section 8(2)].
- (c) Permit Revisions
 1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).
 2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

SECTION G - GENERAL PROVISIONS (CONTINUED)

(e) Acid Rain Program Requirements

1. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

(f) Emergency Provisions

1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
 - a. An emergency occurred and the permittee can identify the cause of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
 - e. This requirement does not relieve the source of other local, state or federal notification requirements.
2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

(g) Risk Management Provisions

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center
P.O. Box 3346
Merrifield, VA, 22116-3346

2. If requested, submit additional relevant information to the Division or the U.S. EPA.

SECTION G - GENERAL PROVISIONS (CONTINUED)

(h) Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
 - e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

SECTION H - ALTERNATE OPERATING SCENARIOS

None

SECTION I - COMPLIANCE SCHEDULE

None